

MERSHON CENTER for International Security Studies

[ABOUT US](#)
[RESEARCH](#)
[NEWS](#)
[EVENTS](#)
[GRANTS](#)
[PEOPLE](#)
[CONTACT](#)
[PUBLICATIONS](#)

You are here: [Home](#) ► [Events](#) ► [Monowar Hossain](#)

EVENTS & DEADLINES

- Nov 16** Ishan Ashutosh
 11/16/2015, -
 Migration and Global Justice
 Workshop
- Nov 18** David Edelstein
 11/18/2015, -
 National Security Speaker
 Series

ARCHIVED EVENTS

Academic Year

▼

Month

▼

SEARCH

EVENTS CALENDAR

Hydropolitics Speaker Series

MONOWAR HOSSAIN



"Water Resources Management Challenges and Coastal Vulnerabilities in Deltaic Bangladesh"

Wednesday, October 07, 2015 2:00PM - 4:00PM
 Scott Lab E100
 201 West 19th Avenue Columbus, Ohio 43210

Register here for this event

M. Monowar Hossain started his career as lecturer at Bangladesh University of Engineering & Technology (BUET). He obtained a Ph.D. in civil engineering from Strathclyde University, Glasgow, in 1985 and became a professor at BUET in 1992. He has held a number of significant positions while working at BUET, such as head of the Department of Water Resources Engineering, dean of faculty of civil engineering, director of student welfare, and director of physical education.

Hossain has worked in many high level government committees including the committee headed by the prime minister of Bangladesh. He has conducted a number research projects on water resource problems in Bangladesh and has 140 technical publications to his credit. He has attended a number of international conferences to present his research findings. Hossain is a recipient of Commonwealth Fellowship and a number of other scholarships and awards. He is a lifetime fellow of the Institution of Engineers, Bangladesh, and member of a number of professional bodies at home and abroad. Currently he is working as executive director of the Institute of Water Modeling.



Monowar Hossain
 Executive Director
 Institute of Water
 Modeling

Abstract

Bangladesh is a disaster-prone country with an area of almost 1.5 million sq km and a population of 160 million, making it the most densely populated country in the world. It is located at the lowermost part of the basins of the three Himalayan rivers: the Ganges, Brahmaputra and Meghna. The combined watersheds of these rivers are about 1.75 million sq km, of which only 7.5 percent lies in Bangladesh. Around 90 percent of the runoff is generated outside Bangladesh during a five-month-long rainy season from June to October, while for the other seven months there is almost no rainfall. Huge runoff in a short time associated with huge sediment loads makes managing the risk of flooding more complicated. Normally about 20 percent of the country is flooded, but in extreme cases about 70 percent of the area of Bangladesh is flooded, creating significant negative impacts on national economy.

Water management in Bangladesh is very challenging due to too much of water in monsoon and too little during the dry season. Coastal cyclones and cyclone induced flooding in coastal areas is an added problem. A projected sea level rise of about 80 cm by 2100 will make future water management even more complex and challenging. Bangladesh has a 710 km long coastline and a coastal area that is about 30 percent of the country's total area and home of 28 percent of its total population. The total water volume and sediment loads are delivered through the coastal area to the Bay of Bengal. This has severe impacts on water management in the country.

Both structural and non-structural measures are adopted for addressing flood risk in Bangladesh. Flood forecasting and warning is the most fruitful non-structural measure to mitigate negative impacts. Using the latest technology to obtain flow data from upstream basins is essential to making flood forecasts with long lead times. Because the watersheds for the Ganges, Brahmaputra and Meghna rivers are shared by different countries in the region, regional co-operation and joint research is essential for reducing flood vulnerability by providing timely and reliable warnings to save people's lives and property.

[Back](#)

MERSHON CENTER

[About Us](#)
[Research](#)
[News](#)
[Events](#)
[Grants](#)
[People](#)
[Publications](#)
[Contact](#)

INTERNATIONAL AFFAIRS

[Office of International Affairs](#)
[Global Gateways](#)
[International Students](#)
[International Scholars](#)
[Study Abroad](#)
[Grants and Scholarships](#)
[International Agreements](#)

AREA STUDY CENTERS

[Center for African Studies](#)
[Center for Latin American Studies](#)
[Center for Slavic & East European Studies](#)
[Polish Studies Initiative](#)
[East Asian Studies Center](#)
[Institute for Chinese Studies](#)
[Institute for Japanese Studies](#)
[Institute for Korean Studies](#)
[Middle East Studies Center](#)

RESOURCES

[Current Events](#)
[Print Newsletter](#)
[Annual Report](#)
[Photo Album](#)
[Events Archive](#)
[Knowledge Bank](#)

[^ back to top](#)



© 2013 Mershon Center for International Security Studies – Office of International Affairs

1501 Neil Ave., Columbus, OH 43201

Phone: 614-292-1681 | Fax: 614-292-2407

[Request an alternate format of this page.](#)

